WHAT IS CLAIMED IS:

1. A digital camera for photo-electrically transducing an image of an object field formed by an image pick-up lens into an image signal representing the object field, comprising:

an image sensor for generating an image signal representing the image of the object field formed;

a signal processor for processing the image signal to produce image data;

an output circuit for outputting the image data produced;

a controller responsive to operating information for controlling said image sensor, said signal processor and said output circuit for generating a shading correction condition and a white balance adjustment condition for correcting the image signal;

a storage for storing the adjustment and correction conditions; and

an operating unit for receiving the operating information corresponding to an operation by an operator;

said controller producing, upon recognition that the operating information commands manual white balance adjustment controlling calibration imaging for imaging an object placed in front of the image pick-up lens, generating the shading correction condition and the white balance adjustment condition for correcting the image signal to be generated at a time of actual imaging, based on the image signal generated by said image sensor at a time of the calibration imaging, and causing the produced correction conditions to be stored in said storage;

said controller reading out, when commanding the actual imaging to cause the generated image signal to be processed by said signal processor, the shading correction condition and the white balance adjustment condition stored in said storage to send out the read-out correction conditions to said signal processor;

said signal processor correcting shading of the image signal for the actual imaging, in accordance with the shading condition supplied from said controller, and also correcting

white balance of the image signal for the actual imaging, in accordance with the white balance adjustment condition supplied from said controller.

2. The digital camera according to claim 1, wherein, in the calibration imaging, said controller produces the shading correction condition associated with a plurality of stop numbers to cause the produced correction condition to be stored in said storage.

3. The digital camera according to claim 2, wherein said controller reads out the shading correction condition, associated with the stop number used in the actual imaging, from said storage, to send out the read-out correction condition to said signal processor.

4. The digital camera according to claim 1, wherein said controller in the calibration imaging produces the white balance adjustment condition associated with a plurality of stop numbers to cause the produced correction condition to be stored in said storage.

5. The digital camera according to claim 4, wherein said controller reads out the white balance adjustment condition, associated with the stop number used at the time of the actual imaging, from said storage, to send out the read-out correction condition to said signal processor.

6. A method of controlling imaging with an image sensor photo-electrically transducing an optical image formed on the image sensor through an imaging lens to generate an image signal, comprising:

a step of recognizing operating information commanding manual white balance adjustment;

a calibration imaging step of imaging an object for use in calibrating the manual white balance adjustment;

a correction condition generating step of generating a shading correction condition for correcting shading of an image signal generated in actual imaging, and a white balance adjustment condition for adjusting white balance of the image signal generated in the actual imaging, based on the image signal generated by said calibration imaging step;

an actual imaging step of controlling the actual imaging responsive to operating information corresponding to an operation by an operator; and

a signal processing step of processing the image signal generated by said actual imaging step, and correcting the shading of the image signal generated by said actual imaging step, based on the shading correction condition and the white balance adjustment condition.

7. The method according to claim 6, wherein said calibration imaging step produces the shading correction condition associated with a plurality of stop numbers.

8. The method according to claim 7, wherein said signal processing step corrects the image signal based on the shading correction condition associated with one of the stop numbers which was used in said actual imaging step.

9. The method according to claim 6, wherein said calibration imaging step produces the white balance adjustment condition associated with a plurality of stop numbers.

10. The method according to claim 9, wherein said signal processing step corrects the image signal based on the white balance adjustment condition associated with one of the stop numbers which was used in said actual imaging step.